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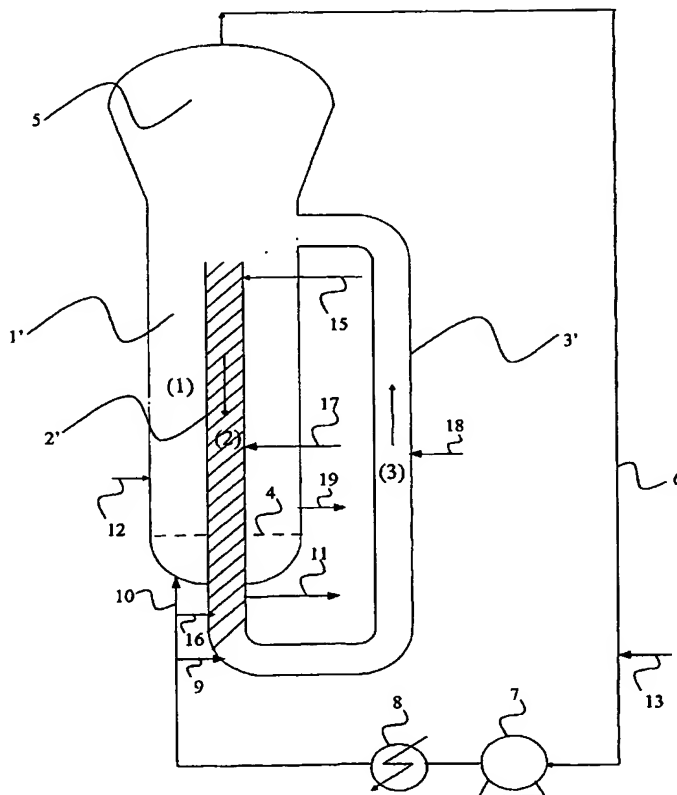
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- (71) Applicant (for all designated States except US): **BASELL POLIOLEFINE ITALIA S.P.A. [IT/IT]; Via Pergolesi 25, I-20124 Milano (IT).**
- (72) Inventors; and  
(75) Inventors/Applicants (for US only): **COVEZZI, Massimo [IT/IT]; Via Renata di Francia, 40, I-44100 Ferrara (IT). MEIER, Gerben [DE/DE]; Schumannstrasse 54, 60325 Frankfurt (DE). MEI, Gabriele [IT/IT]; Via Beata Lucia da Narni, 3, I-44100 Ferrara (IT).**
- (74) Agent: **COLUCCI, Giuseppe; Basell Poliolefine Italia S.P.A., Intellectual Property, P.le G. Donegani 12, 44100 Ferrara (IT).**
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(54) Title: **POLYMERIZATION PROCESS**



(57) **Abstract:** Process for the gas-phase catalytic polymerization of olefins carried out in a plurality of interconnected polymerization zones, the process comprising feeding one or more monomers to said polymerization zones in the presence of a catalyst under reaction conditions and collecting the polymer product from said polymerization zones, in which process the polymer particles grow within a first polymerization zone where a fluidized bed is formed, at least a part of said polymer particles leave said first polymerization zone to enter a second polymerization zone through which they flow downward, leave said second polymerization zone and enter a third polymerization zone through which they flow upward under fast fluidization or transport conditions, leave said third polymerization zone and are reintroduced into the first polymerization zone, thus establishing a circulation of polymer between the different polymerization zones.